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NEW ACADEMICIANS, FOREIGN MEMBERS, AND CORRESPONDING MEMBERS  
ELECTED TO THE BULGARIAN ACADEMY OF SCIENCES

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## FOREWORD

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The Bulgarian Academy of Sciences held general meetings this year between 6 January and 7 February. New Academicians, foreign members and corresponding members were elected as follows:

Academicians

1. Prof. Lyubomir Krustanov Krustanov, corresponding member of BAS [Bulgarian academy of sciences] elected academician of geophysics. He is our well known scientist in the field of the metallurgy and the physics of the atmosphere and has had a number of scientific papers published here and in other countries. Many of his papers have served as basis for research in this realm of science. His contributions to science are recognized and valued here and abroad.

2. Prof. Asen Borisov Datsev, corresponding member of BAS, elected academician of theoretical physics. He is one of the well known Bulgarian theoretical physicists; his scientific endeavors have been published mainly in foreign journals. His research on heat radiation of solids and Stefan's Law have created interest here and abroad.

3. Prof. Khristo Yankov Khristov, corresponding member of BAS, elected academician of theoretical physics. His researches are directed to the present tendencies of theoretical physics and on some aspects of mathematics. He has achieved scientific results which have created interest here and abroad.

4. Prof. Rostislav Atanasov Kaishev, corresponding member of BAS, elected academician of physical chemistry. Prof. R. Kaishev is one of the creators of the existing theory of semination and growth of crystals. He has amplified a number of important practical problems in the field of metallurgy, catalysis, corrosion and others. These amplifications are extremely valuable and are considered basic achievements in almost all contemporary monographs and theses on these subjects.

5. Prof. Georgi Rankov Christov, corresponding member of BAS, elected academician of organic technology. A great scientist in his field, has worked out many problems pertaining to fats, edible products and synthetic resins. His findings have been published in Bulgarian and foreign languages.
6. Prof. Dīmītr. Evanov Popov, corresponding member of BAS, elected academician of organic chemistry. The originality of his scientific work has gained international recognition. He is especially known for his work on the multi-functional organo-magnesia and organolithic unifications. He has published many papers, most of them in foreign languages.
7. Prof. Ekim Stefanov Bonchev, corresponding member of BAS, elected academician of geological sciences. He is the outstanding Bulgarian tectonic specialist and also well known abroad. His work is mainly devoted to tectonic problems. He has also contributed valuable knowledge of the stratigraphical and geological structure of our soils.
8. Prof. Kiril Pavlov Zarev, corresponding member of BAS, elected academician of vegetation. One of our outstanding specialists on the physiology of the plants. His scientific findings as to the durability of plants without water, the biology of potatoes, the agrotechnics of wheat and others are well known here and abroad; they are widely used in our socialist structure.
9. Prof. Pavel Popov Mindovovski, corresponding member of BAS, elected academician of vegetation. He has published about 60 scientific papers. His research on the biochemistry of the peppers and more recent research on wheat have created great interest.
10. Prof. Raina Angelova Georgieva, corresponding member of BAS, elected academician of genetics and selectivity. She is concerned with the problem of vegetative hybridization, hybridization from afar, identification of genetic and non-genetic plants and others. She has published about 30 scientific papers which rate her one of the best of the progressive biologists here and abroad.
11. Prof. Ignat Emanuilov Igov, corresponding member of BAS, elected academician of microbiology. In his research in this field he has proven many facts which are practical and applicable.
12. Prof. Georgi Stoyanov Uzunov, corresponding member of BAS, elected academician of psychiatry. He has published about 110 papers in Bulgarian and foreign languages. Through his research in this field, specifically on the inebriations of the nervous system, the inflammatory disturbance of the nervous system, the pathogeny of epilepsy, and others, he has gained prominence here and abroad. He has created a school which is well recognized here and abroad.
13. Prof. Dimitar Konstantinov Kosev, corresponding member of BAS, elected academician of recent Bulgarian history. He is one of our well known historians. He has written many monographs and articles on the most recent Bulgarian history. His endeavors have greatly enriched Bulgarian history.
14. Prof. Evgeni Ganchev Kamenov, corresponding member, elected academician of economy. He is well informed and a good theoretician of the economic problems of the Peoples Democracies and of the socialistic

reconstruction of Peoples Democratic countries. He is well informed on Soviet economic aid and the mutual economic aid among the socialist countries and also on contemporary capitalism and the economic relationship between the two systems. His publications enrich our knowledge of economics.

15. Prof. Zhak. Natan Primo, corresponding member of BAS, elected academician of economics. Author of papers on Marxist-Leninist political economy and the history of Bulgarian commerce. Through his publications he has contributed much to the acceptance of Marxists economics in Bulgaria; many of them have been translated in foreign languages and are arousing great interest.

16. Prof. Georgi Slavov Karaslavov, elected academician of Bulgarian literature. His artistic creativeness is one of the most outstanding feats of the proletarian-revolutionary movement during the period of Fascism and our contemporary socialistic, realistic literature. He has enriched our artistic literature with his great works, which have received high praise here and abroad.

#### Foreign Members of the Bulgarian Academy of Sciences

1. Academician Nikolai Nikolaevich Bogulyuvov, member of the USSR Academy of Sciences. One of Soviet's best scientists. His field is mechanics and statistical and theoretical physics. His mastery of mathematics has served him in solving many difficult problems. His most important works are in the realm of elementary particles.

2. Academician Alexander Naumovich Frumkin, member of the USSR Academy of Sciences. He is one of the most outstanding contemporary electro-chemists; author of the theory of acceleration of electro-chemical processes; he has stressed the importance of the theory and practice of electro-chemical genetics. It is safe to say that the present advancement of electro-chemistry is influenced entirely by his ideas.

3. Academician Frantisek Shorm, vice president of the Czechoslovakian Academy of Sciences. One of the renowned scientists of Czechoslovakia and well known abroad. He has solved important problems in organic chemistry and biochemistry.

4. Academician Simeon Stoilov, member of the Rumanian Academy of Sciences. Creator of schools of mathematics in Rumania. The core of his research is the theory of analytics and its nature. He has a profound knowledge of realistic analysis and perpetual impressions, with emphasis on the inner impressions. One of the outstanding members of the Rumanian Academy of Sciences.

5. Academician Hans Karl Oskar Shtube, president of the German Academy of Agricultural Sciences. He is mainly interested in experimental genetics research on mutations, research on experimental derivation of mutations, the reaction of various chemicals in the process of mutation. He is known to our plant growers as one of the best genetics scientists.

6. Academician Rudolph Maninger, vice president of the Hungarian Academy of Sciences. Interested in the differential diagnosis of various contagious diseases of domestic animals, especially acute parathyphoid of pigs. Has worked on the explanation of the etiology and immunization of a number of contagious diseases.

7. Academician Sinisha Stankovich, president of the Academic Congress of the Federation of the People's Republic of Yugoslavia, member of the Serbian Academy of Science. Famous biologist, mostly in the field of parasitism. One of the great contemporary Yugoslavian scientists.

8. Prof. Roshe Bernar, in charge of the Department of Bulgarian Language and Literature at the University of Paris. He has worked for many years on the problems of the Bulgarian language and literature. Prof. Bernar is presently the best informed man on Bulgaria in Western Europe. His research on our language is valuable to us.

#### Corresponding Members

1. Prof. Boyan Lazarov Petkanchin, elected corresponding member of Geometry. Outstanding Bulgarian geometer in the field of integral and axiomatic geometry. His works are well received here and abroad.

2. Prof. Yaroslav Alexandrov Tagamlit ski, elected corresponding member of functional analysis. His publications are well received here and abroad.

3. Prof. Nikola Petrov Penchev, elected corresponding member of analytic chemistry. His scientific research is conducted primarily on natural gases, their weight, spectrum, and color analysis. He has worked out extremely precise methods for clarifying helium, argon, and neon. By his original findings in the field of the geochemistry of natural gases, he has gained fame here and abroad.

4. Prof. Alexander Vasilev Spasov, elected corresponding member of organic chemistry. His work is devoted to the structural analysis of the organic unities and the mechanisms of some reactions among them to the synthetic and natural bodies with physiological and medicinal effect. Many of his findings are of practical value.

5. Prof. Bogdan Yordanov Kurtev, elected corresponding member of organic chemistry. Outstanding researcher of contemporary theoretic organic chemistry, whose original findings are of considerable value and practicality.

6. Prof. Ivan Kostov Nikolov, elected corresponding member of geology. Has written in Bulgarian and foreign languages on the minerals in Bulgaria, as to their sources and chemistry and their classification. He is especially known here and abroad for his new classifications of minerals and the classification of mangamite and where it is to be located.

7. Prof. Stefan Georgiev Khristov, elected corresponding member of physical chemistry and nonorganic chemistry. Outstanding physical chemist. He works in the field of experimental and theoretic electro-kinetics, the relationship of motion and energy and the law of harnessing energy. His contributions to science are of great importance.

8. Prof. Ivan Nikolov Popov, elected corresponding member of electrical machines. He is one of our greatest specialists in the field of electro-technics, where he has achieved important scientific and practical results. Last year the government of GDR presented Prof. Popov with a commendation for achievements on the transformer, which read: "Deserving Technician of the People."

9. Prof. Vasil Todorov Stoilov, elected corresponding member of organization and economics of construction. Our well known specialist on wooden construction.

10. Prof. Yakim Ivanov Yakimov, elected corresponding member of energetics. A large part of his works are devoted to heat energetics and the construction of heat energy machines. They constitute original study and are closely connected to the practical needs of a socialist state.

11. Prof. Dimiter Tzolov Marinov, elected corresponding member of architecture. One of the well known Bulgarian architects. He has rich individualistic talents for construction of industrial and office buildings as well as houses. He is known abroad.

12. Prof. Architect Stancho Iliev Belkovski, elected corresponding member of architecture. This famous architect is working on the current important problems of our present mass construction, especially on public housing construction.

13. Alexander Stoyanov Toshkov, elected corresponding member of microbiology. He has made considerable progress in the study of contagious diseases in cattle and bees and immunization of people and domestic animals. His researches are important in the struggle against contagious disease.

14. Prof. Alexander Konstantinov Vulkanov, elected corresponding member of hydrobiology. His research is in the field of hydrobiology, hydrography, fauna, and morphology. His research on water organisms is especially important.

15. Prof. Tasho Angelov Tashev, elected corresponding member of nutrition and stomach organism. He specializes in the pathology of the stomach, intestines, the lungs, and in the clinical laboratory work. His scientific works are of theoretical value, and indirectly they are responsible for healthy dieting.

16. Prof. Alexy Romanov Pukhlev, elected corresponding member of internal diseases. He has published a number of papers, mainly on the heart and blood diseases. He is known as one of the best heart specialists in Bulgaria and has gained recognition abroad.

17. Prof. Ivan Georgiev Penchev, elected corresponding member of internal diseases. His greatest scientific contributions to our medicine are in the field of diabetes and its early diagnosis, the clinical treatment of basidium and endemic throat diseases.

18. Prof. Boycho Boychev Boychev, elected corresponding member of surgery. Originator of contemporary orthopedics and traumatics and creator of a school for specialists in this field. His originality of methods of operations are widely accepted abroad.

19. Prof. Dragomir Mateev Stefanov, elected corresponding member of physiology. He works in the fields of physiology, physical education and sports, of physical labor, of fatigue, of blood circulation, and of high nervous occupational pressure. The results of his research in these areas are valued in world literature.

20. Senior Science Associate Yordan Dimitrov Milkovski, elected corresponding member of plants. He is one of our well known plant growers,

specializing in cotton. He has worked out problems of the selection, agrotechnics and technology of cotton and other agricultural products. He is the discoverer of a number of varieties of cotton which are accepted not only in Bulgaria but in Rumania and Hungary.

21. Ivan Khristov Kovachevski, elected corresponding member of plant preservation. His scientific work entails all phases of the phyto-pathology and plant preservation. He has helped us in establishing many new parasitic mushrooms, new bacteria and plant viruses. His research on diseases of cultivated plants has been valuable to agriculture.

22. Prof. Nedelcho Nedelchev Radev, elected corresponding member of vineyards. He is one of our first theoreticians and practitioners in the field of grapevines and vineyards. He has successfully solved the problem of the affinity between our grapevines and others, and also the problem of non-fruit bearing vines. He has made considerable contributions in the selectivity of grapevines.

23. Prof. Tsvetan Dimitrov Staikov, elected corresponding member of agrochemistry and soil knowledge. In his work he dwells on questions of the chemistry of plants, the chemistry of soils, fertilizers and fertilizing. Through his research, he has made scientific contributions on absorbency of the soils and their varying cations.

24. Prof. Nikola Dimov Platikanov, elected corresponding member of animal husbandry. He has published a number of articles on the breeding and feeding of farm animals, some of which possess valuable originality. The main phase of his research is on the exteriority, the growth, the development, the crossbreeding and the quality of the Bulgarian Province cattle and cattle in general.

25. Prof. Stefan Georgiev Pavlov, elected corresponding member of the science of criminology. Well known educator in this field. His scientific creativeness constitutes a basic part of criminal laws in our literature. It has received recognition abroad, especially in the USSR.

26. Prof. Alexander Obretenov Obretenov, elected corresponding member of creative art. In his writings he forcefully stresses socialistic realism in art. He is working principally in the field of art, Marxist-Leninist esthetics, and art criticism.